

# EAST Search History

Updated East Search  
wsp/11/05/05

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	586	radial piston pump distributor	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:10
L2	2	((GABRIELE) near2 (PECORARI)).INV.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:10
✓ L3	557 +2	91/498.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:11
L4	198	(rotor coaxial) and (radial piston pump) and (bearing ring)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:11
L6	96	L1 and (seal ring)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
L7	13	(engine rotary radial piston) and (ignite cylinder seal)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
L8	21	L4 and "ball bearings"	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
L9	17	("0475301"   "3585904"   "3774397"   "4064841"   "4299097"   "4366674"   "4410305"   "4494386"   "4753079"   "5000003").PN. OR ("6513482").URPN.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
L10	5	("0444901"   "4440067"   "4898076"   "5090295").PN. OR ("5176511").URPN.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
✓ L11	1090 +44	(rotating near5 bearing) and (radial piston)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
✓ L12	101744 +1100	cylinder (raceway or tract or groove)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
✓ L13	259	L11 and L12	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:12
L14	1667	(stationary out ring) and coaxial and (rotating inner ring)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:13
— L15	344	(radial piston pump) and ((raceway or track or tract) and (rotate bearing))	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:14
L16	97	L15 and coaxial	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:14
L17	515	(radial piston (pump or motor)) and (bearing ring rotate) and coaxial	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:14

## EAST Search History

L18	81	L17 and ((tract or raceway or groove) near10 piston)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:14
<del>L19</del>	690 +3	((cylinder and piston) near10 stationary) (raceway or tract or groove)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:15
<del>L20</del>	6696 +85	(rotating bearing ring) and (raceway or track or tract)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:15
<del>L21</del>	10685 +132	rotating central rotor	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:15
L22	20	L20 and L21 and L14	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:15
<del>L23</del>	3036 +3	(bearing rotate inner ring) and (stationary (piston or cylinder))	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:15
L24	19	L23 and ((raceway or track or tract) near5 (inner and piston))	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:15
L25	11	(radial piston pump) and (variable displacement) and ((bearing near5 rotate) seal)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:16
<del>L26</del>	670 +8	92/12.2.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:16
<del>L27</del>	131 +4	L26 and (rotating bearing)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:16
<del>L28</del>	153 +3	L26 and (radial piston)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:16
<del>L29</del>	532 +7	92/72.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:17
L30	31	(current meter increase) and (pump motor speed control (torque or power) vary)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:17
L31	261	(current meter increase) and (motor speed control (torque or power) vary)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:17
<del>L32</del>	13031 +106	radial piston pump	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:18
L33	659	slide shoe piston ring	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:18
L34	92	L33 and L32	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:18

## EAST Search History

L35	659	slide shoe piston ring	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:19
L36	44	417/272.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:19
L37	2903	cam bearing piston radial	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:19
L38	36915	(seal ring cylinder)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:19
✓ L39	407 +1	L38 and L37	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:19
✓ L40	523 +3	417/273.ccls.	USPAT	SAME	OFF	2007/08/27 14:20
✓ L41	117 +1	L40 and (((channel or bore) with piston) and radial and (cam or eccentric))	USPAT	SAME	OFF	2007/08/27 14:20
✓ L42	161 +1	417/546.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:21
L43	133	417/523.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:21
L44	164	417/495.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:21
L46	522	417/511.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:22
L47	17	lovisetto	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:22
✓ L48	1178 + 26	piston with (perpendicular with (hole or bore))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/27 14:22
✓ L49	13031 104	(radial piston pump)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:22
L50	90	L49 and L48	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:22
L51	116	417/444.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:23
L52	46	92/69a.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:23
✓ L53	1178 +26	piston with (perpendicular with (hole or bore))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/27 14:24

## EAST Search History

<del>L54</del>	1606 +25	417/269.ccls.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:25
<del>L55</del>	524 +2	92/172.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/27 14:26
L56	610	light weight piston holes	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:27
L57	189	L56 and (pump)	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:27
<del>L58</del>	2033 +26	(piston (internal with (bore or hole))) and (weight or mass)	USPAT	SAME	OFF	2007/08/27 14:28
<del>L59</del>	681 +2	distributor angle axis	USPAT	SAME	OFF	2007/08/27 14:28
L60	1	L59 and L58	USPAT	SAME	OFF	2007/08/27 14:28
<del>L61</del>	68 +1	(weight or mass) with (reduce or lighten) with (piston (bore or channel))	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:28
<del>L62</del>	541 +1	pintle piston radial	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:29
L63	218514	nitride	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:29
<del>L64</del>	19 +1	L63 and pintle	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:29
L65	15	("1778238"   "3255706"   "3304883"   "3724334"   "3730054"   "3777624"   "3785250"   "3942414").PN. OR ("4033239").URPN.	US-PGPUB; USPAT; USOCR	SAME	OFF	2007/08/27 14:30

## EAST Search History

Interference Search

*James J. Miller*

08/27/2007

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L16	2	91/498.ccls.	US-PGPUB	SAME	ON	2007/08/27 16:36
L17	1	91/494.ccls.	US-PGPUB	SAME	ON	2007/08/27 16:36
L18	16	92/72.ccls.	US-PGPUB	SAME	ON	2007/08/27 16:36
L19	52	92/12.2.ccls.	US-PGPUB	SAME	ON	2007/08/27 16:36
L20	71	(11 or 13 or 14 or 15)	US-PGPUB	SAME	ON	2007/08/27 16:36
L21	1	16 and (rotary and radial and piston and (slide near2 rail) and (flat near5 head near5 piston))	US-PGPUB	SAME	ON	2007/08/27 16:36
L22	1	16 and (rotary and radial and piston and (slide near2 rail))	US-PGPUB	SAME	ON	2007/08/27 16:36
L23	553	(rotary and radial and piston and rail)	US-PGPUB	SAME	ON	2007/08/27 16:37
L24	1	(rotary and radial and piston and (slide near2 rail) and (flat near5 head near5 piston))	US-PGPUB	SAME	ON	2007/08/27 16:36
L25	2	16 and (rotary and radial and piston and rail)	US-PGPUB	SAME	ON	2007/08/27 16:36
L26	5	(rotary and radial and piston and rail).clm.	US-PGPUB	SAME	ON	2007/08/27 16:36
L27	2	(rotary and radial and piston and sinusoid\$3).clm.	US-PGPUB	SAME	ON	2007/08/27 16:36
L28	43	(rotary and radial and piston and slide).clm.	US-PGPUB	SAME	ON	2007/08/27 16:36
L29	1	16 and (radial and piston and (slide near2 rail))	US-PGPUB	SAME	ON	2007/08/27 16:36